



**Drinking Water and Radiation Laboratory Branch**

850 Marina Bay Parkway, Richmond, CA 94804  
Phone: (510) 620-2911 Fax: (510) 620-2940

**FINAL Analysis Results Report for Task ID. 14-0830**

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0830-01	Sample ID: R 98507 Sample Type: Milk	Time Collected: 12/15/2014 7:55	Sampling Point: Cal Poly Dairy Farms	
I-131	EPA 901.1	-0.155 +/- 0.414	0.921	pCi/L
K-40	EPA 901.1	1250 +/- 76.3	25.8	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where  $S_b$  is the square root of the instrument background count rate.



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**FINAL Analysis Results Report for Task ID. 14-0745**

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0745-01	Sample ID: R 94744 Sample Type: Milk	Time Collected: 11/3/2014 8:15	Sampling Point: Cal Poly Dairy Farms	
I-131	EPA 901.1	0.244 +/- 0.187	0.850	pCi/L
K-40	EPA 901.1	1250 +/- 38.1	25.7	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where  $S_b$  is the square root of the instrument background count rate.



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**FINAL Analysis Results Report for Task ID. 14-0677**

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0677-01	Sample ID: R 94721 Sample Type: Milk	Time Collected: 10/6/2014 9:05	Sampling Point: Cal Poly Dairy Farms	
I-131	EPA 901.1	0.296 +/- 0.191	0.868	pCi/L
K-40	EPA 901.1	1240 +/- 37.8	25.8	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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**FINAL Analysis Results Report for Task ID. 14-0615**

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0615-01	Sample ID: R 94687 Sample Type: Milk	Time Collected: 9/2/2014 7:35	Sampling Point: Cal Poly Dairy Farms	
I-131	EPA 901.1	0.310 +/- 0.192	0.875	pCi/L
K-40	EPA 901.1	1280 +/- 38.9	25.8	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where  $S_b$  is the square root of the instrument background count rate.



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**FINAL Analysis Results Report for Task ID. 14-0578**

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0578-01	Sample ID: R 94602 Sample Type: Milk	Time Collected: 8/18/2014 7:15	Sampling Point: Cal Poly Dairy Farms	
I-131		0.112 +/- 0.190	0.860	pCi/L
K-40	EPA 901.1	1280 +/- 38.9	25.5	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where  $S_b$  is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0552

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0552-01	Sample ID: R 94695 Sample Type: Milk	Time Collected: 8/6/2014 9:40	Sampling Point: Humboldt Creamery	
K-40	EPA 901.1	1240 +/- 46.6	53.0	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where  $S_b$  is the square root of the instrument background count rate.



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**FINAL Analysis Results Report for Task ID. 14-0553**

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0553-01	Sample ID: R 94694 Sample Type: Milk	Time Collected: 8/6/2014 8:30	Sampling Point: Rumiano cheese	
K-40	EPA 901.1	1280 +/- 40.9	32.7	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where  $S_b$  is the square root of the instrument background count rate.



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**FINAL Analysis Results Report for Task ID. 14-0488**

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0488-01	Sample ID: R 94601 Sample Type: Milk	Time Collected: 7/8/2014 9:05	Sampling Point: Cal Poly Dairy Farms	
I-131		-0.289 +/- 0.228	1.01	pCi/L
K-40	EPA 901.1	1300 +/- 31.1	29.3	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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**FINAL Analysis Results Report for Task ID. 14-0378**

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0378-01	Sample ID: R 94520 Sample Type: Milk	Time Collected: 6/4/2014 7:55	Sampling Point: Cal Poly Dairy Farms	
Iodine-131	HASL Ga-01-R	-0.0865 +/- 0.186	0.834	pCi/L
K-40	EPA 901.1	1280 +/- 39.1	25.8	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0315

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0315-01	Sample ID: R 94535 Sample Type: Milk	Time Collected: 5/7/2014 13:00	Sampling Point: Rumiano Cheese	
K-40	EPA 901.1	1260 +/- 40.3	33.0	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0312

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0312-01	Sample ID: R 94432 Sample Type: Milk	Time Collected: 5/6/2014 7:25	Sampling Point: Cal Poly Dairy Farms	
I-131	EPA 901.1	-0.216 +/- 0.272	1.21	pCi/L
K-40	EPA 901.1	1280 +/- 44.9	42.0	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where  $S_b$  is the square root of the instrument background count rate.



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**FINAL Analysis Results Report for Task ID. 14-0309**

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0309-01	Sample ID: R 94518 Sample Type: Milk	Time Collected: 5/5/2014 7:30	Sampling Point: Humboldt Creamery	
K-40	EPA 901.1	1380 +/- 67.5	36.3	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where  $S_b$  is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0234

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0234-01	Sample ID: R 94393 Sample Type: Milk	Time Collected: 4/8/2014 10:25	Sampling Point: Cal Poly Dairy Farms	
I-131	EPA 901.1	-0.165 +/- 0.189	0.839	pCi/L
K-40	EPA 901.1	1300 +/- 39.7	25.9	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where  $S_b$  is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0142

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0142-01	Sample ID: R 94296 Sample Type: Milk	Time Collected: 3/4/2014 7:30	Sampling Point: Cal Poly Dairy	
I-131	EPA 901.1	0.145 +/- 0.230	1.04	pCi/L
K-40	EPA 901.1	1340 +/- 32.0	29.4	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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**FINAL Analysis Results Report for Task ID. 14-0079**

Parameter	Method	Result +/- CE	MDA <sub>95</sub>	Units
Lab No: 14-0079-01	Sample ID: R 94283 Sample Type: Milk	Time Collected: 2/4/2014 7:10	Sampling Point: Cal Poly Dairy Farms	
I-131	EPA 901.1	-0.211 +/- 0.195	0.868	pCi/L
K-40	EPA 901.1	1290 +/- 28.2	26.6	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA<sub>95</sub> is the sample specific minimum detectable activity at the 95% confidence level which is the LLD<sub>95</sub> divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radionuclide. LLD<sub>95</sub> is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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**FINAL Analysis Results Report for Task ID. 14-0075**

Parameter	Method	Result +/- CE	MDA <sub>95</sub>	Units
Lab No: 14-0075-01	Sample ID: R 94389 Sample Type: Milk	Time Collected: 2/3/2014 7:20	Sampling Point: Humboldt Creamery	
K-40	EPA 901.1	1240 +/- 29.8	34.7	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA<sub>95</sub> is the sample specific minimum detectable activity at the 95% confidence level which is the LLD<sub>95</sub> divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radionuclide. LLD<sub>95</sub> is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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**FINAL Analysis Results Report for Task ID. 14-0096**

Parameter	Method	Result +/- CE	MDA <sub>95</sub>	Units
Lab No: 14-0096-01	Sample ID: R 94388 Sample Type: Milk	Time Collected: 2/3/2014 8:00	Sampling Point: Rumiano Cheese	
K-40	EPA 901.1	1240 +/- 29.8	33.1	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA<sub>95</sub> is the sample specific minimum detectable activity at the 95% confidence level which is the LLD<sub>95</sub> divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radionuclide. LLD<sub>95</sub> is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.



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**FINAL Analysis Results Report for Task ID. 14-0020**

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0020-01	Sample ID: R 94229 Sample Type: Milk	Time Collected: 1/13/2014 7:00	Sampling Point: Cal Poly Dairy Farms	
I-131	EPA 901.1	0.313 +/- 0.210	0.958	pCi/L
K-40	EPA 901.1	1250 +/- 27.4	25.7	pCi/L

- (1) Precision criteria for these method were determined to be acceptable.
- (2) CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980.
- (3) MDA95 is the sample specific minimum detectable activity at the 95% confidence level which is the LLD95 divided by 2.22, the efficiency, and the yield, and may include factors for abundance, decay, and ingrowth, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.